

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC 7 G01C21/36 B60R16/02 G10L15/26 G10L15/22

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 G10L G01C B60R

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data, INSPEC

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>US 6 542 868 B1 (BADT ET AL.) 1 April 2003 (2003-04-01) abstract column 1, line 16 - line 34 column 1, line 46 - line 60 column 1, line 63 - column 2, line 11 column 4, line 2 - line 15 column 4, line 30 - line 39 column 5, line 51 - line 66 column 6, line 5 - line 39 figure 3</p> <p>----- -/--</p>	1-17

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

**\* Special categories of cited documents :**

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
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- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
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Date of the actual completion of the international search

24 August 2004

Date of mailing of the international search report

06/09/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Santos Luque, R

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 99/28145 A (AUSTRALIAN ARROW PTY LTD ;JAMES CAMPBELL RICHARD (AU)) 10 June 1999 (1999-06-10) abstract page 3, line 15 - line 21 page 3, line 29 - page 4, line 2 page 5, line 26 - page 6, line 2 claims 1,6,9,12	1-4, 9-13,17
X	US 6 208 932 B1 (OHMURA ET AL) 27 March 2001 (2001-03-27) abstract column 1, line 4 - line 18 column 2, line 58 - line 64 column 8, line 67 - column 9, line 7 column 9, line 49 - line 60 column 10, line 44 - line 53 column 11, line 19 - line 23	1-17
A	DE 100 24 007 A (VOLKSWAGENWERK AG) 18 January 2001 (2001-01-18) column 1, line 3 - line 23 column 4, line 1 - line 15	1,8-11, 16,17
A	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 08, 6 October 2000 (2000-10-06) & JP 2000 146617 A (ALPINE ELECTRONICS INC), 26 May 2000 (2000-05-26) abstract	5,14
A	US 2002/067839 A1 (HEINRICH) 6 June 2002 (2002-06-06) abstract	3,15

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